

# OIL ANALYSIS REPORT

**VOLVO  
PENTA**

**WILLIAM WATTERS SRO0100015 VOLVO PENTA A1146017 - CENTER DIESEL ENGINE**

**Sample No:** VPA062989

**Oil Type:** VOLVO VDS-4.5 Premium Motor Oil 15W40

## SAMPLE INFORMATION

Sample Number	VPA062989	---	---	---
Sample Date	04 Jun 2024	---	---	---
Machine Hours	190	---	---	---
Oil Hours	157	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

**Pacific Power Group - VP981534**

7215 S 228th St

Kent, WA

US 98032

Contact: PAT RYAN

pryan@pacificpowergroup.com

T: (253)520-5163

F:

## OIL CONDITION

Visc @ 100°C	cSt	█ 12.7	---	---	---
Base Number (BN)	mg KOH/g	█ 9.7	---	---	---
Oxidation (PA)	%	78	---	---	---

## Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

## CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.5	---	---	---
Nitration (PA)	%	54	---	---	---
Sulfation (PA)	%	63	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 29	---	---	---
Sodium	ppm	█ 6	---	---	---
Potassium	ppm	█ 5	---	---	---

## WEAR METALS

Iron	ppm	█ 45	---	---	---
Copper	ppm	█ 20	---	---	---
Lead	ppm	█ 6	---	---	---
Tin	ppm	█ 2	---	---	---
Aluminum	ppm	█ 31	---	---	---
Chromium	ppm	█ 4	---	---	---
Molybdenum	ppm	█ 41	---	---	---
Nickel	ppm	█ 5	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 3	---	---	---
Vanadium	ppm	0	---	---	---

## ADDITIVES

Calcium	ppm	█ 1664	---	---	---
Magnesium	ppm	█ 517	---	---	---
Zinc	ppm	█ 1060	---	---	---
Phosphorus	ppm	█ 905	---	---	---
Barium	ppm	█ 1	---	---	---
Boron	ppm	█ 65	---	---	---

**Depot:** VP99031103

**Unique No:** 11076889

**Signed:** Don Baldrige

**Report Date:** 17 Jun 2024

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## GRAPHS

